

Lichuan Jin

List of Publications by Year in descending order

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304701

22
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31
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110
all docs

110
docs citations

110
times ranked

1305
citing authors

#	ARTICLE	IF	CITATIONS
1	Tunable non-Gilbert-type damping in Ni ₈₀ Fe ₂₀ films sputtered on the rippled Al ₂ O ₃ substrates. Journal of Alloys and Compounds, 2022, 893, 162319.	5.5	4
2	Synthesis of low-temperature sintered M-type barium ferrites with enhanced microstructure, magnetic and dielectric properties. Journal of Alloys and Compounds, 2022, 899, 163146.	5.5	6
3	Spin wave propagation in uniform waveguide: effects, modulation and its application. Journal Physics D: Applied Physics, 2022, 55, 263002.	2.8	2
4	Magnetization dynamics in the YIG/Au/YIG magnon valve. APL Materials, 2022, 10, .	5.1	5
5	Synthesis and magnetic properties of low-temperature sintered, LMZBS glass-doped dense NiCuZn ferrites. Ceramics International, 2022, 48, 19011-19016.	4.8	12
6	Giant Extrinsic Spin Hall Effect in Platinum-Titanium Oxide Nanocomposite Films. Advanced Science, 2022, 9, e2105726.	11.2	6
7	Strong Perpendicular Anisotropy and Anisotropic Landé Factor in Bismuth-Doped Thulium Garnet Thin Films. Frontiers in Materials, 2022, 9, .	2.4	0
8	Effects of substrate morphology on permeability spectra of Ni ₈₀ Fe ₂₀ films deposited on periodically rippled sapphire substrates. Journal of Materials Science: Materials in Electronics, 2022, 33, 14409-14418.	2.2	2
9	Bias-free spin-wave propagation in a micrometer-thick ferrimagnetic film with perpendicular magnetic anisotropy. AIP Advances, 2022, 12, .	1.3	1
10	Effect of sintering temperature on microstructure and magnetic and dielectric properties of M-type barium ferrites. Ceramics International, 2022, 48, 27712-27717.	4.8	3
11	The controls of magnetization dynamics and magneto-optic properties in single-crystalline yttrium iron garnet capped by rare-earth dysprosium nano-films. Journal of Magnetism and Magnetic Materials, 2021, 522, 167546.	2.3	1
12	Interfacial chemical states and recoverable spin pumping in YIG/Pt. Applied Physics Letters, 2021, 118, .	3.3	5
13	Structure dependence of dielectric characteristics in Li ₂ Mg ₃ Ti _{1-x} (Al _{0.5} Ta _{0.5}) _x O ₆ ceramics. Journal of Materials Research and Technology, 2021, 11, 1378-1386.	5.8	4
14	Effects of substrate annealing on uniaxial magnetic anisotropy and ferromagnetic resonance frequency of Ni ₈₀ Fe ₂₀ films deposited on self-organized periodically rippled sapphire substrates. Vacuum, 2021, 186, 110047.	3.5	6
15	Effect of zirconium deficiency on structure characteristics, morphology and microwave dielectric properties of Li ₂ Mg ₃ Zr _{1-x} O ₆ ceramics. Ceramics International, 2021, 47, 12567-12573.	4.8	9
16	Phase shifter and broadband XOR logic gate based on edge-mode type spin wave in the waveguide. Europhysics Letters, 2021, 134, 37003.	2.0	1
17	Structural dependence of microwave dielectric performance of wolframite structured Mg _{1-x} CaxZrNb ₂ O ₈ ceramics: Crystal structure, microstructure evolution, Raman analysis and chemical bond theory. Journal of the European Ceramic Society, 2021, 41, 3445-3451.	5.7	14
18	Fabrication and broadband ferromagnetic resonance studies of freestanding polycrystalline yttrium iron garnet thin films. APL Materials, 2021, 9, 061105.	5.1	3

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19	High-Performance Multifunctional Photodetector and THz Modulator Based on Graphene/TiO ₂ /p-Si Heterojunction. <i>Nanoscale Research Letters</i> , 2021, 16, 134.	5.7	9
20	Bi-YIG ferrimagnetic insulator nanometer films with large perpendicular magnetic anisotropy and narrow ferromagnetic resonance linewidth. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 496, 165886.	2.3	27
21	Crystal structure and enhanced microwave dielectric properties of Ta ⁵⁺ substituted Li ₃ Mg ₂ NbO ₆ ceramics. <i>Journal of the American Ceramic Society</i> , 2020, 103, 214-223.	3.8	58
22	Magnetic properties of a Y ₃ Fe ₅ O ₁₂ /(TmBi) ₃ (FeGa) ₅ O ₁₂ heterostructure related to strain-induced magnetic anisotropy. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 497, 165817.	2.3	1
23	Bias-free reconfigurable magnonic phase shifter based on a spin-current controlled ferromagnetic resonator. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 105002.	2.8	6
24	Cold Sintered Metal-Ceramic Nanocomposites for High-Frequency Inductors. <i>Advanced Electronic Materials</i> , 2020, 6, 2000868.	5.1	18
25	Strong interface-induced spin-charge conversion in YIG/Cr heterostructures. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	12
26	Impact of interfacial chemical state on spin pumping and inverse spin Hall effect in YIG/Pt hybrids. <i>Physical Review B</i> , 2020, 102, .	3.2	8
27	Quantum Spin-Wave Materials, Interface Effects and Functional Devices for Information Applications. <i>Frontiers in Materials</i> , 2020, 7, .	2.4	4
28	Simultaneously Enhanced Spin Hall Effect and Spin-Mixing Conductance in a $Y_3Fe_5O_{12}/Pt$ Heterostructure. <i>Physical Review Applied</i> , 2020, 13, .	3.8	3
29	Crystal structure, bond energy, Raman spectra, and microwave dielectric properties of Ti-doped Li ₃ Mg ₂ NbO ₆ ceramics. <i>Journal of the American Ceramic Society</i> , 2020, 103, 4321-4332.	3.8	51
30	Extremely Large Magnetization and Gilbert Damping Modulation in NiFe/GeBi Bilayers. <i>ACS Applied Electronic Materials</i> , 2020, 2, 254-259.	4.3	4
31	Synthesis of V ₂ O ₅ -Doped and low-sintered NiCuZn ferrite with uniform grains and enhanced magnetic properties. <i>Ceramics International</i> , 2020, 46, 10652-10657.	4.8	29
32	Large spin Hall angle in nonmagnetic PtSn alloy films at room temperature. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 507, 166860.	2.3	10
33	Synthesis of yttrium iron garnet/bismuth quantum dot heterostructures with localized plasmon enhanced magneto-optical performance. <i>Journal of Materials Science and Technology</i> , 2020, 51, 32-39.	10.7	9
34	Spin pumping and laser modulated inverse spin Hall effect in yttrium iron garnet/germanium heterojunctions. <i>Applied Physics Letters</i> , 2020, 116, 122405.	3.3	5
35	Recent advances in key elements of spin-wave logic gates. <i>Scientia Sinica Informationis</i> , 2020, 50, 67-86.	0.4	2
36	Correlation between structure characteristics and dielectric properties of Li ₂ Mg _{3-x} Cu _x TiO ₆ ceramics based on complex chemical bond theory. <i>Ceramics International</i> , 2019, 45, 23509-23514.	4.8	20

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37	Temperature stability and chemical compatibility of novel Li _{1.6} Zn _{1.6} Sn _{2.8} O ₈ ceramics. <i>Materials Chemistry and Physics</i> , 2019, 238, 121960.	4.0	8
38	MuFA (Multi-type Fourier Analyzer): A tool for batch generation of MuMax3 input scripts and multi-type Fourier analysis from micromagnetic simulation output data. <i>Computer Physics Communications</i> , 2019, 244, 311-318.	7.5	1
39	Synthesis, crystal structure and low loss of Li ₃ Mg ₂ NbO ₆ ceramics by reaction sintering process. <i>Ceramics International</i> , 2019, 45, 19766-19770.	4.8	16
40	High-Performance All-Optical Terahertz Modulator Based on Graphene/TiO ₂ /Si Trilayer Heterojunctions. <i>Nanoscale Research Letters</i> , 2019, 14, 159.	5.7	9
41	Effect of Interfacial Roughness Spin Scattering on the Spin Current Transport in YIG/NiO/Pt Heterostructures. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 35458-35467.	8.0	28
42	Temperature dependence of spin-wave modes and Gilbert damping in lanthanum-doped yttrium-iron-garnet films. <i>AIP Advances</i> , 2019, 9, .	1.3	15
43	The linear relationship of spin pumping energy in a La:YIG/Pt heterostructure used in a microwave rectifier. <i>MRS Advances</i> , 2019, 4, 553-558.	0.9	1
44	Antenna design for ferromagnetic resonance and spin wave spectroscopy. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 490, 165442.	2.3	1
45	Reconfigurable nanoscale spin-wave directional coupler using spin-orbit torque. <i>Scientific Reports</i> , 2019, 9, 7093.	3.3	13
46	Correlation between crystal structure and modified microwave dielectric characteristics of Cu ²⁺ -substituted Li ₃ Mg ₂ NbO ₆ ceramics. <i>Ceramics International</i> , 2019, 45, 10170-10175.	4.8	27
47	Pulsed laser deposition grown yttrium-iron-garnet thin films: Effect of composition and iron ion valences on microstructure and magnetic properties. <i>Applied Surface Science</i> , 2019, 483, 947-952.	6.1	33
48	Near-ultraviolet photodetector based on hexagonal TmFeO ₃ ferroelectric semiconductor thin film with photovoltaic and pyroelectric effects. <i>APL Materials</i> , 2019, 7, .	5.1	9
49	Ultralow loss and temperature stability of Li ₃ Mg ₂ NbO ₆ -xLiF ceramics with low sintering temperature. <i>Journal of Alloys and Compounds</i> , 2019, 782, 370-374.	5.5	20
50	Densification and magnetic properties of NiCuZn low-sintering temperature ferrites with Bi ₂ O ₃ -Nb ₂ O ₅ composite additives. <i>Journal of Alloys and Compounds</i> , 2019, 776, 954-959.	5.5	30
51	Influence of LZN nanoparticles on microstructure and magnetic properties of bi-substituted LiZnTi low-sintering temperature ferrites. <i>Ceramics International</i> , 2019, 45, 1946-1949.	4.8	11
52	Crystal structure and enhanced microwave dielectric properties of non-stoichiometric Li ₃ Mg ₂ +xNbO ₆ ceramics. <i>Materials Letters</i> , 2019, 235, 84-87.	2.6	4
53	Temperature-and thickness -dependent dynamic magnetic properties of sputtered CoFeB/Ta bilayer films. <i>Journal of Alloys and Compounds</i> , 2018, 753, 475-482.	5.5	23
54	Controllably degradable transient electronic antennas based on water-soluble PVA/TiO ₂ films. <i>Journal of Materials Science</i> , 2018, 53, 2638-2647.	3.7	61

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55	Giant optical absorption and low dark current characteristics in wrinkled single layer graphene/bismuth nanorods heterostructures. <i>Carbon</i> , 2018, 127, 596-601.	10.3	10
56	Atomic-scale structure and chemistry of YIG/GGG. <i>AIP Advances</i> , 2018, 8, 085117.	1.3	6
57	Thickness dependence of magnetic properties in submicron yttrium iron garnet films. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 435001.	2.8	20
58	Magnonic waveguide based on exchange-spring magnetic structure. <i>AIP Advances</i> , 2018, 8, .	1.3	8
59	Giant Inverse Spin Hall Effect in Bi Doped PtBi Alloy. <i>Advanced Electronic Materials</i> , 2018, 4, 1700632.	5.1	30
60	Giant damping enhancement induced by exchange coupling in Y ₃ Fe ₅ O ₁₂ /Co ₂ FeAl _{0.5} Si _{0.5} bilayers. <i>Journal of Alloys and Compounds</i> , 2018, 767, 398-402.	5.5	4
61	Correlations between the structural characteristics and enhanced microwave dielectric properties of V ⁵⁺ -modified Li ₃ Mg ₂ NbO ₆ ceramics. <i>Ceramics International</i> , 2018, 44, 19295-19300.	4.8	39
62	Investigation and characterization on crystal structure and enhanced microwave dielectric properties of non-stoichiometric Li _{3+x} Mg ₂ NbO ₆ ceramics. <i>Ceramics International</i> , 2018, 44, 20539-20544.	4.8	26
63	Enhanced gyromagnetic properties of NiCuZn ferrite ceramics for LTCC applications by adjusting MnO ₂ -Bi ₂ O ₃ substitution. <i>Ceramics International</i> , 2018, 44, 19370-19376.	4.8	27
64	Liquid phase epitaxy magnetic garnet films and their applications. <i>Chinese Physics B</i> , 2018, 27, 086701.	1.4	21
65	Investigation of grain boundary diffusion and grain growth of lithium zinc ferrites with low activation energy. <i>Journal of the American Ceramic Society</i> , 2018, 101, 5037-5045.	3.8	34
66	Manipulate the magnetic anisotropy of nanoparticle assemblies in arrays. <i>Journal of Colloid and Interface Science</i> , 2017, 497, 14-22.	9.4	12
67	Novel thermal-stable low temperature sintered Ba ₂ LiMg ₂ V ₃ O ₁₂ microwave dielectric ceramics with ZnO-P ₂ O ₅ -MnO ₂ glass addition. <i>Materials Research Bulletin</i> , 2017, 93, 16-20.	5.2	10
68	Manufacturing and terahertz wave modulation properties of graphene/Y ₃ Fe ₅ O ₁₂ /Si hybrid nanostructures. <i>Composites Part B: Engineering</i> , 2017, 111, 10-16.	12.0	3
69	Skyrmions Based Spin-Torque Nano-Oscillator. <i>IEEE Magnetics Letters</i> , 2017, 8, 1-5.	1.1	6
70	Infrared and Terahertz Modulation Characteristics of n-GeBi/p-Si Photodiodes. <i>IEEE Transactions on Electron Devices</i> , 2017, 64, 176-181.	3.0	3
71	Temperature stability and high-Q _f of low temperature firing Mg ₂ SiO ₄ -Li ₂ TiO ₃ microwave dielectric ceramics. <i>Ceramics International</i> , 2017, 43, 16167-16173.	4.8	34
72	Voltage-controlled nanoscale reconfigurable magnonic crystal. <i>Physical Review B</i> , 2017, 95, .	3.2	62

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73	Chemical epitaxial growth of nm-thick yttrium iron garnet films with low Gilbert damping. Journal of Alloys and Compounds, 2017, 695, 2301-2305.	5.5	17
74	Polycrystalline Bi substituted YIG ferrite processed via low temperature sintering. Journal of Alloys and Compounds, 2017, 695, 931-936.	5.5	31
75	Infrared Properties and Terahertz Wave Modulation of Graphene/MnZn Ferrite/p-Si Heterojunctions. Nanoscale Research Letters, 2017, 12, 482.	5.7	3
76	Preparation and Optical Properties of GeBi Films by Using Molecular Beam Epitaxy Method. Nanoscale Research Letters, 2017, 12, 634.	5.7	0
77	Large area Germanium Tin nanometer optical film coatings on highly flexible aluminum substrates. Scientific Reports, 2016, 6, 34030.	3.3	8
78	Effect of in-situ annealing on the structural and optical properties of GeSn films grown by MBE. Journal of Alloys and Compounds, 2016, 684, 643-648.	5.5	8
79	Novel low temperature sintered Li ₄ Ti ₅ O ₁₂ microwave dielectric ceramics with MoO ₂ addition. Modern Physics Letters B, 2016, 30, 1650287.	1.9	0
80	Li ₂ O-B ₂ O ₃ -SiO ₂ -CaO-Al ₂ O ₃ and Bi ₂ O ₃ co-doped gyromagnetic Li _{0.43} Zn _{0.27} Ti _{0.13} Fe _{2.17} O ₄ ferrite ceramics for LTCC Technology. Ceramics International, 2016, 42, 16198-16204.	4.8	48
81	Growth and infrared/terahertz range photoelectric properties of GeSn/p-Si substrate photodiode. , 2016, , .		1
82	Microstructure and optic-electric performance of SiGe/Si heterostructures. , 2016, , .		0
83	MBE growth of ultra-thin GeSn film with high Sn content and its infrared/terahertz properties. Journal of Alloys and Compounds, 2016, 665, 131-136.	5.5	16
84	Nanogranular CoFe-yttrium-doped zirconia films for noise suppressor. , 2015, , .		1
85	Nanogranular CoFe-Yttrium-Doped Zirconia Films for Noise Suppressor. IEEE Transactions on Magnetism, 2015, 51, 1-4.	2.1	0
86	Adjusting spectrum gaps of spin waves by interference. , 2015, , .		0
87	Effect of NiZn Ferrite Nanoparticles upon the Structure and Magnetic and Gyromagnetic Properties of Low-Temperature Processed LiZnTi Ferrites. Journal of Physical Chemistry C, 2015, 119, 13207-13214.	3.1	28
88	Compositional dependence of magnetic and high frequency properties of nanogranular CoFe-Yttrium-doped Zirconia films. Journal of Alloys and Compounds, 2015, 648, 270-275.	5.5	4
89	Enhanced ferromagnetic properties of low temperature sintering LiZnTi ferrites with Li ₂ O-B ₂ O ₃ -SiO ₂ -CaO-Al ₂ O ₃ glass addition. Journal of Alloys and Compounds, 2015, 620, 421-426.	5.5	59
90	Grain growth, densification, and gyromagnetic properties of LiZnTi ferrites with H ₃ BO ₃ -Bi ₂ O ₃ -SiO ₂ -ZnO glass addition. Journal of Applied Physics, 2014, 115, 17A511.	2.5	12

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91	Spin valve effect of the interfacial spin accumulation in yttrium iron garnet/platinum bilayers. Applied Physics Letters, 2014, 105, 132411.	3.3	11
92	Tuning of the spin pumping in yttrium iron garnet/Au bilayer system by fast thermal treatment. Journal of Applied Physics, 2014, 115, 17C511.	2.5	4
93	Tuning the Magnetization Dynamics in Sputtered $\text{Co}_{0.5}\text{FeAl}_{0.5}\text{Si}_{0.5}$ Heusler Alloy Thin Film by Gas Pressure. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	2
94	Improving the Magnetic Properties of Li-Zn-Ti Ferrite by Doping with H3BO3-Bi2O3-SiO2-ZnO Glass for LTCC Technology. Journal of Electronic Materials, 2014, 43, 3653-3658.	2.2	8
95	Dramatic Reduction of FMR Linewidth in Epitaxial $\text{Pb}(\text{ZrTi})\text{O}_3\text{-NiFe}_2\text{O}_4$ Nanocomposite Films. IEEE Transactions on Magnetics, 2013, 49, 4299-4302.	2.1	1
96	Effects of ruthenium seed layer on the microstructure and spin dynamics of thin permalloy films. Journal of Applied Physics, 2013, 113, .	2.5	13
97	Large magnon band gaps created by introducing additional lattice scatterers. Journal of Applied Physics, 2013, 113, 153905.	2.5	7
98	Design of nanostrip magnonic crystal waveguides with a single magnonic band gap. Journal of Magnetism and Magnetic Materials, 2013, 340, 23-26.	2.3	21
99	Tuning the spin pumping characteristics in $\text{Ni}_{81}\text{Fe}_{19}/\text{Cu}_x$ bilayer films. Journal of Applied Physics, 2013, 113, 17C503.	2.5	3
100	Flexible tuning microwave permeability spectrum in [ferromagnet/antiferromagnet] _n /exchange-biased multilayer stack structure. Chinese Physics B, 2013, 22, 047502.	1.4	1
101	Strong exchange bias with the (110)-oriented BiFeO_3 films. Applied Physics Letters, 2012, 101, 092401.	3.3	23
102	Permeability Dispersion and Magnetic Loss of $\text{m Fe}/\text{m Ni}_{1-x}\text{Zn}_x\text{Fe}_2\text{O}_4$ Soft Magnetic Composites. IEEE Transactions on Magnetics, 2012, 48, 3622-3625.	2.1	25
103	Micromagnetic Simulation of the Dynamic Susceptibility Spectra of Antidot Array Films With Two Sublattices. IEEE Transactions on Magnetics, 2012, 48, 3246-3249.	2.1	11
104	Tuning the permeability spectra with a half-free ferromagnetic underlayer in $(\text{NiFe}/\text{IrMn})_n$ exchange-biased multilayers. Thin Solid Films, 2012, 520, 5756-5760.	1.8	2
105	Design of a LC-tuned magnetically suspended rotating gyroscope. Journal of Applied Physics, 2011, 109, .	2.5	6
106	Realization of a Wideband Microwave Noise Filter Used Magnetic Multilayer Thin Films by Using Exchange Bias Stacks Structure. Advanced Materials Research, 0, 335-336, 1267-1272.	0.3	0
107	Preparation of Rutile TiO_2 Film by Low Temperature Hydrothermal. Solid State Phenomena, 0, 305, 65-69.	0.3	0
108	Improving the Goodness-of-Fit of Permeability Spectra and Application in Garnet Ferrite. Journal of Electronic Materials, 0, , .	2.2	1